

ABSTRACT

A flush valve includes a body having an inlet and an outlet. There is a main seat assembly at the outlet. An outer cover is attached to the body and an inner cover is attached to the body within the outer cover. A piston is movable within the body and inner cover and, with the inner cover, defines a pressure chamber. The piston carries an exterior seal which bears against an inside wall of the inner cover during movement of the piston. A refill orifice in the piston connects the chamber with the body inlet. Pressure in the chamber maintains the piston closed upon the main seat assembly. A relief valve is positioned in the piston for venting the chamber to the outlet. When the relief valve is opened and the chamber is vented, the piston moves away from the main seat assembly connecting the inlet with the outlet.